

PR - JP19960238359 19960820

OPD - 1996-08-20

TI - DISTANCE-MEASURING SENSOR, DISTANCE-MEASURING UNIT, PAPER-SHEETS CONVEYANCE DEVICE, AUTOMATIC INSPECTION DEVICE AND PRINTING APPARATUS

IN - KITAGAWA YUKINORI;TAKEMURA KENJI

PA - OMRON TATEISI ELECTRONICS CO

IC - G01C3/06 ; G01B11/00 ; G01S7/48 ; G01S17/08

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1 - Optical range sensor for paper conveyor, printer, automatic tester - has position sensor provided in light receiver, which has shading areas on its light receiving surface with optical spot moving corresponding to object distance

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PA - (OMRO ) OMRON KK

IC - G01B11/00 ;G01C3/06 ;G01S7/48 ;G01S17/08

AB - J10062161 The sensor (12) includes a light transmitter (14) from which the light beam is illuminated on a measurement object 24. The light beam reflected from the object, is received by a light receiver (15). The light receiver comprises a position sensor (18) which generates an electrical signal corresponding to the reflected light.

- A pair of shading area (20,20b) is formed at both the end surfaces of position sensor. Based on the distance variation of the object, the optical spot is moved between the shading areas with respect to the optical centre surface. Based on the optical spot movement, the object distance (L) is calculated.

- ADVANTAGE - Improves object distance measurement precision.

- (Dwg.2/30)

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